

IMPROVED ELECTRICAL CONNECTOR FOR AIRCRAFT FUEL PUMPS

ABSTRACT OF THE DISCLOSURE

The improved electrical connector for aircraft fuel pumps includes a unitary cup-shaped connector shell with an outer radial connector flange, and is configured to increase the distance between connector pins and grounded portions of the connector shell to thus increase the electrical current leak path length to prevent arcing from occurring. A glass electrical insulating plug in the connector shell forms a hermetic seal of the closed end of the connector shell, and a plurality of ceramic tubular risers are mounted to the glass insulating plug. Connector pins extend through the risers, and electrical cables are connected to the connector pins. One or more outer layers of heat shrunk electrical insulating tubing cover the risers, a portion of the connector pins extending from the risers, and the electrical cables. An electrical insulating tubular extension may also be placed over the outer layer of insulating tubing.